

10-AUG-2006 12:01

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*Central Facsimile No.: 1-571-273-8300*  
*Pages Sent - 3* **- L A S**

Attn: Examiner: Michael A. Lyons  
Examination Group Art Unit: 2877

**RECEIVED**  
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**AUG 10 2006**

Re: Owner: FAILES, Michael  
Patent Application in U.S.A.  
Serial No. : 10/796320 Filing Date: March 10, 2004  
Our Case : P1004  
Title : Fiber Optic Scanning Interferometer Using  
a Polarization Splitting Coupler  
OFFICE ACTION MAILING DATE: FEBRUARY 23, 2006

Dear Sirs :

Submitted herewith please find letter to Examiner Lyons dated August 1, 2006,  
comprising 2 pages.

## CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the U.S.  
Patent and Trademarks Office at facsimile number (571) 273-8300 on July 27, 2006.

Paul Herbert  
Reg. No. 27,278

PH/las  
Encl.

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Title : Fiber Optic Scanning Interferometer Using  
a Polarization Splitting Coupler

Dear Examiner Lyons:

Further to our telephone conference of August 9, 2006, we confirm that you will amend claim 11 as per an examiner's amendment to read as follows:

11. A scanning interferometer comprising:
- i. a light source comprising a super luminescent diode or an edge emitting light emitting diode;
  - ii. a fiber optic assembly comprising:
    - a. polarization maintaining fiber having P and S modes;
    - b. splitting means for splitting the P and S modes of said fiber wherein said S mode propagates in one arm in one polarization axis and said P mode propagates in the other arm in the other polarization axis.

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- c. an optical path length modulator comprising a piezo-electric actuator and a fiber stretching device having a low polarization mode dispersion;
- d. a reference mirror;
- e. an analyzer; and
- f. a detector.

Allowance is solicited.

Respectfully submitted,

FAILES, Michael

By: 

Paul Herbert  
Reg. No. 27,278

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